

Table 13. Mean number of research users per system, by detailed type of instrument and type of user: 1993

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Detailed type of instrument	Mean number of research users per system					
	All users	Faculty of host department/facility	Graduate students and postdoctorates from host department/facility	Researchers from other departments/facilities of host institution	Researchers outside the host institution	All other users
Total, all instruments	24.2	3.5	8.5	6.0	4.5	1.8
Computers and data handling instruments	58.5	4.8	12.8	21.4	13.6	5.8
Computers/components costing:						
\$1,000,000 and over	2090.8	8.4	27.0	2028.9	16.5	10.0
\$500,000 - \$999,999	169.1	10.1	35.1	31.9	90.5	1.6
\$50,000 - \$499,999	54.0	6.9	14.7	12.8	10.1	9.4
\$20,000 - \$49,999	45.0	3.5	11.2	12.0	14.5	3.7
Chromatographs and spectrometers	15.2	2.8	7.7	2.1	1.0	1.6
Chromatographs and elemental analyzers ...	13.7	2.5	5.0	1.9	.7	3.5
Electron/auget/ion scattering	9.6	2.4	5.1	.8	.9	.4
UV/visible/infrared spectrophotometer	10.9	2.0	6.1	1.4	.4	1.0
NMR/EPR spectrometer	29.2	4.8	20.5	2.4	1.4	.2
Xray diffraction systems	19.2	3.9	10.7	2.8	1.3	.5
Other spectroscopy instruments	14.9	2.8	7.3	2.6	1.6	.5
Microscopy instruments	18.3	3.7	7.2	4.8	2.3	.4
Electron microscopes	29.9	4.9	9.5	8.8	6.1	.6
Other microscopy instruments	13.0	3.2	6.1	2.9	.5	.3
Bioanalytical instruments	19.5	4.3	10.8	2.8	1.0	.6
Cell sorters/counters, cytometers	21.3	3.6	5.6	10.0	1.9	.2
Centrifuges and accessories	18.5	4.4	12.1	1.6	.1	.3
DNA/protein synthesizers/sequencers/analyzers	32.2	5.8	12.1	10.0	3.8	.5
Growth/environmental chambers	8.9	2.2	5.6	.6	.4	.1
Scintillation/gamma radiation/counters/detectors	18.0	4.1	9.5	1.7	1.5	1.2
Other instruments	14.3	2.6	5.6	1.4	4.0	.6
Electronics instruments (cameras,etc)	9.7	1.9	5.4	.5	.9	.9
Temperature/pressure control/measurement instruments	11.7	2.4	7.0	1.3	.8	.1
Lasers and optical instruments	7.1	1.6	4.3	.4	.7	.1
Robots, manufacturing machines	11.5	3.0	6.9	1.3	.1	.1
Telescopes/astronomical	10.2	1.8	3.7	1.2	2.4	1.2
Nuclear reactors/nuclear science instrument systems	79.1	3.3	4.7	2.9	68.1	.1
Research vessels/planes/helicopters	51.7	7.9	11.9	2.8	20.7	8.5
Wind/wave/water/shock tunnels	S	S	S	S	S	S
Molecular/electron/ion beam systems	13.7	2.5	7.3	2.3	1.5	.2
Major prototype systems	14.8	3.0	5.7	2.3	2.8	1.0
Other, not elsewhere classified	19.7	3.3	5.9	2.0	7.5	.9

NOTE: Data in this table were not collected for supersystems, which are large, integrated instrumentation systems/facilities generally with an aggregate purchase price of \$1 million or more.

KEY: S = fewer than 10 cases for analysis

SOURCE: National Science Foundation/SRS, Survey of Academic Research Instruments and Instrumentation Needs: 1993